AUTODOC CLUB

# How to change rear brake pad wear sensor on **MERCEDES-BENZ GL (X166)** – replacement guide

## SIMILAR VIDEO TUTORIAL

This video shows the replacement procedure of a similar car part on another vehicle

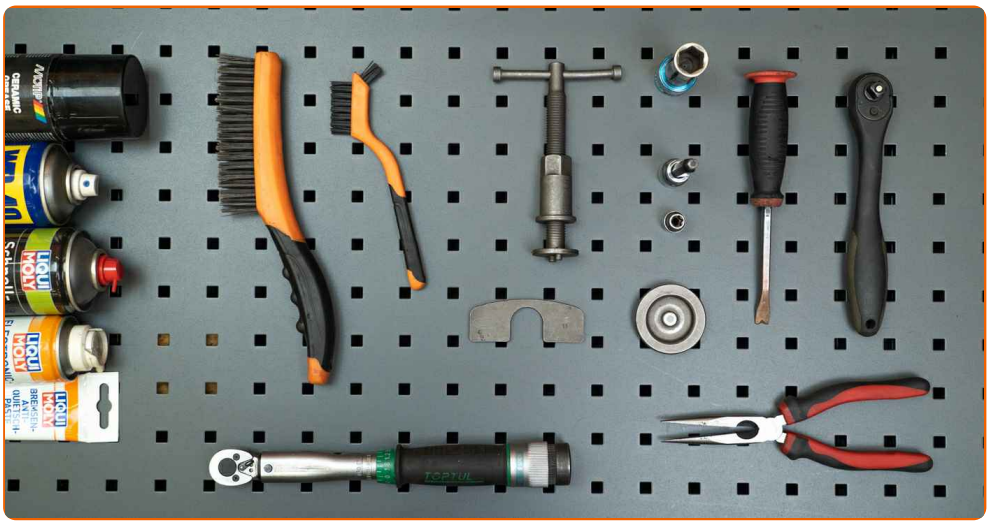
**Important!**

This replacement procedure can be used for:
MERCEDES-BENZ GL (X166) GL 400 4-matic (166.856), MERCEDES-BENZ GL (X166) GL 350 CDI / BlueTec 4-matic (166.823, 166.824), MERCEDES-BENZ GL (X166) GL 500 4-matic (166.873, 166.874), MERCEDES-BENZ GL (X166) GL 63 AMG 4-matic (166.874), MERCEDES-BENZ GL (X166) GL 500 4-matic (166.873), MERCEDES-BENZ GL (X166) GL 350 CDI / BlueTEC 4-matic (166.824)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ C-Class Saloon (W204) C 220 CDI (204.008)

# REPLACEMENT: BRAKE PAD WEAR SENSOR – MERCEDES-BENZ GL (X166). TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Electronic spray
- Brake cleaner
- Anti-squeal paste
- Ceramic grease
- Torque wrench
- Torx bit E10
- HEX bit no.H7
- Wheel impact socket #17
- Ratchet wrench
- Long nose pliers
- Brake caliper wind back tool
- Crow bar
- Wheel chock

Buy tools

Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). AUTODOC recommends:

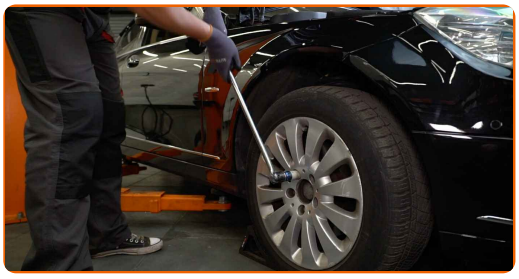
- The replacement procedure is identical for both brake pad wear sensors on the same axle.
- The wear sensors should be replaced together with the brake pads.
- Please note: all work on the car – MERCEDES-BENZ GL (X166) – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.

2 Secure the wheels with chocks.

3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the car.

## Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). Tip from AUTODOC:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

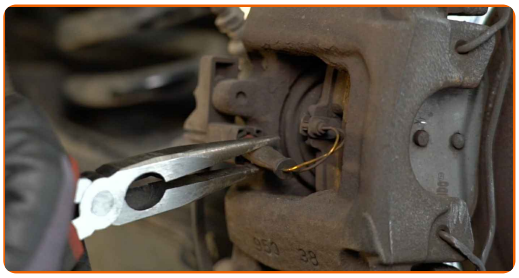
**5** Unscrew the wheel bolts.

## AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ GL (X166)

**6** Remove the wheel.

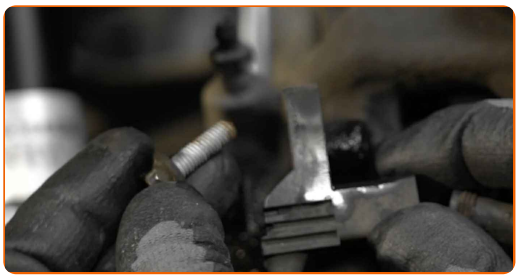
**7** Detach the connector of the brake pad wear sensor. Use long nose pliers.



**8** Clean the fasteners of the brake pad wear sensor wiring harness. Use a wire brush. Use WD-40 spray.

**9** Unscrew the fasteners of the brake pad wear sensor wiring harness. Use Torx E10. Use a ratchet wrench.

**10** Remove the fastening bolt.

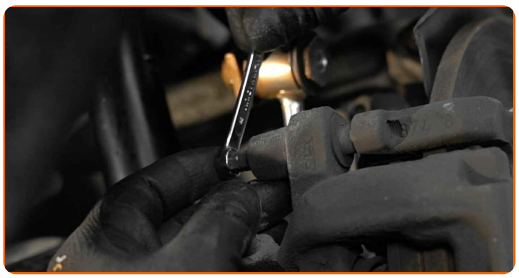


**11** Detach the brake pad wear sensor wiring harness.

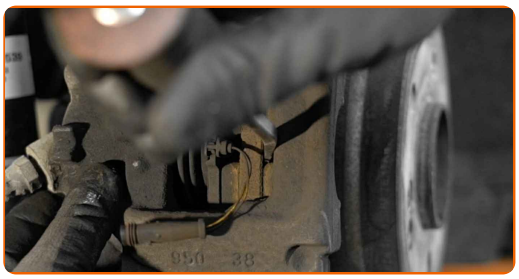
**12** Detach the brake caliper retaining spring. Use a crowbar.

**13** Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.

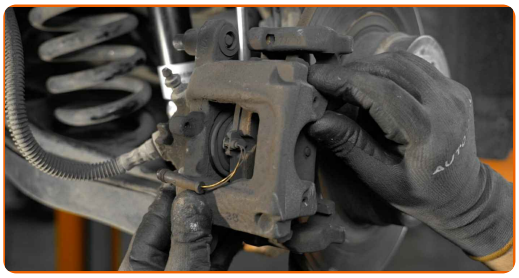
**14** Unscrew the brake caliper fasteners. Use HEX No.H7. Use a ratchet wrench.



**15** Spread the brake pads. Use a crowbar.



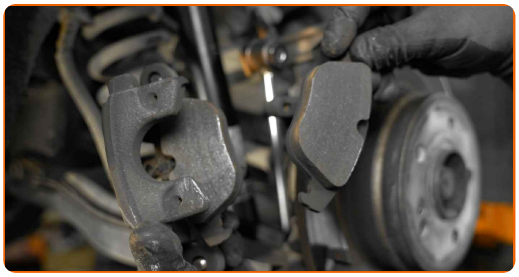
**16** Remove the brake caliper.



## Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). Tip:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

**17** Remove the brake pads.

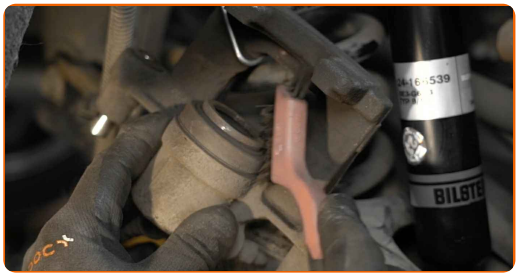


**18** Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

AUTODOC recommends:

- After applying the spray, wait a few minutes.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

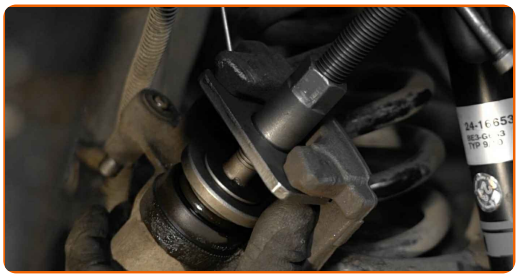
**19** Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). After applying the spray, wait a few minutes.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

**20** Press in the brake caliper piston. Use brake caliper wind back tool.



**21** Attach the new wear sensor to the new pad.

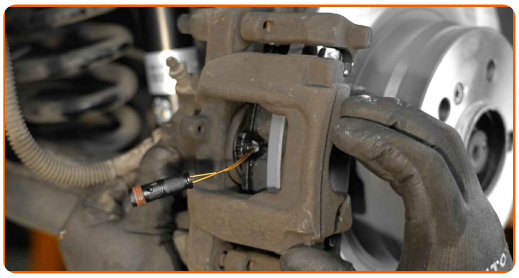
**22** Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.

## AUTODOC recommends:

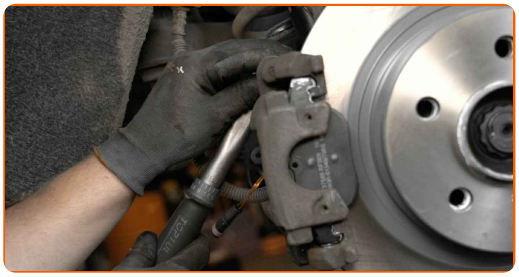
- Make sure the disc surface is clean before installing the pads.

**23** Install the brake pads.

**24** Install the brake caliper and fix it.

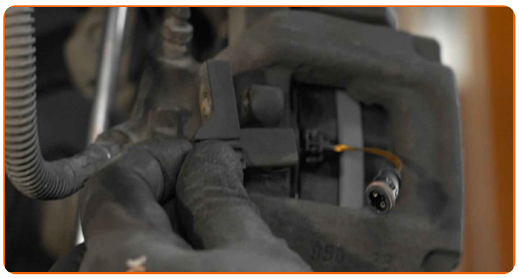


**25** Tighten the brake caliper fasteners. Use HEX No.H7. Use a torque wrench. Tighten it to 25 Nm torque.

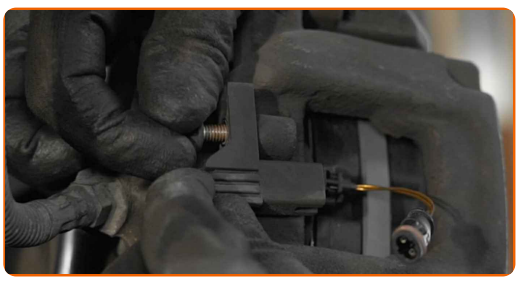


**26** Install the dust boot caps of the brake caliper guide pins.

**27** Attach the brake pad wear sensor wiring harness.

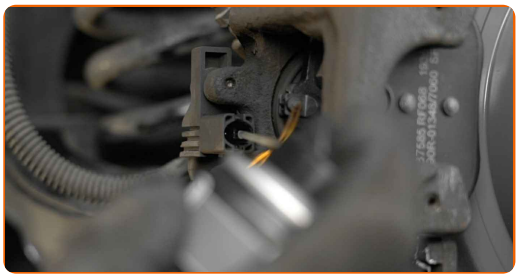


**28** Install the fastening bolt.

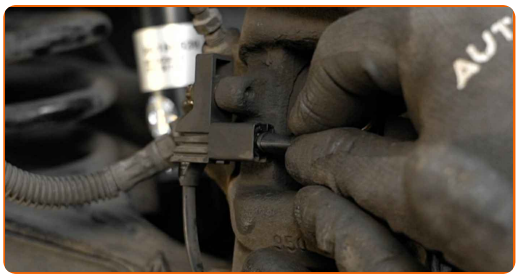


**29** Tighten the fasteners of the brake pad wear sensor wiring harness. Use Torx E10. Use a torque wrench. Tighten it to 8 Nm torque.

**30** Treat the brake pad wear sensor plug. Use dielectric grease.



**31** Attach the connector of the brake pad wear sensor.



**32** Install the brake caliper retaining spring.

**33** Clean the wheel rim mounting seat. Use a wire brush.

**34** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.

**35** Clean the brake disk surface. Use a brake cleaner.

### AUTODOC recommends:

- After applying the spray, wait a few minutes.

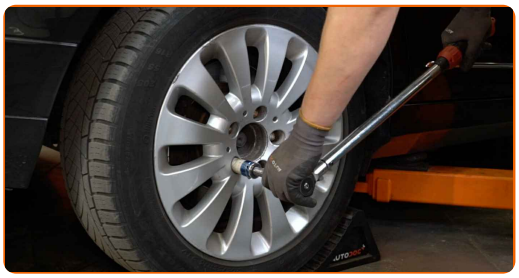
**36** Install the wheel.

### AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ GL (X166)

**37** Screw in the wheel bolts. Use wheel impact socket #17.

**38** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 130 Nm torque.



**39** Remove the jacks and chocks.

## AUTODOC recommends:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

40 Tighten the brake fluid reservoir cap. Close the hood.

## WELL DONE!

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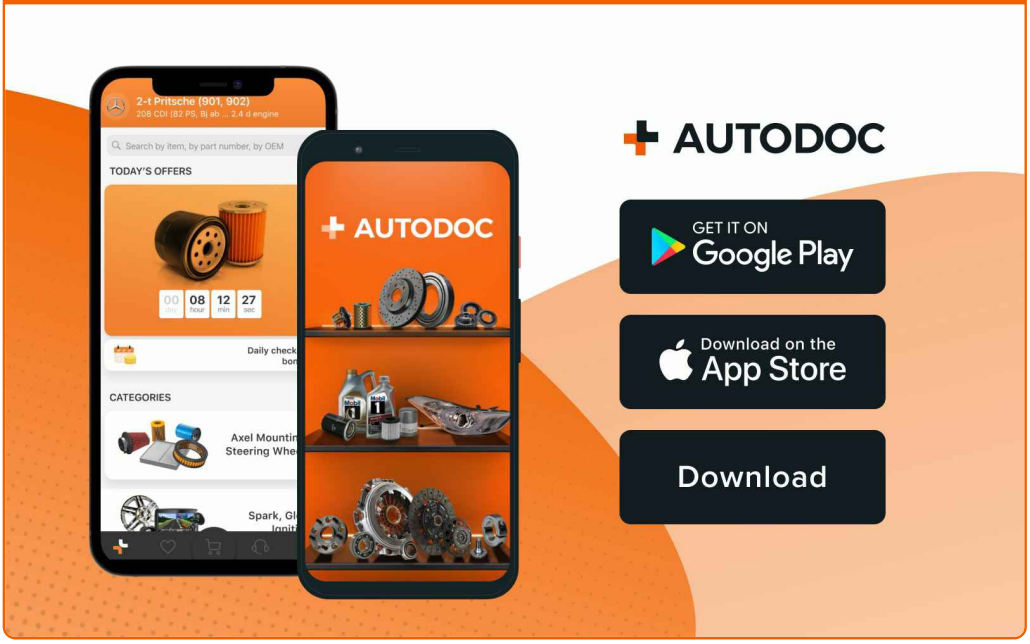


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